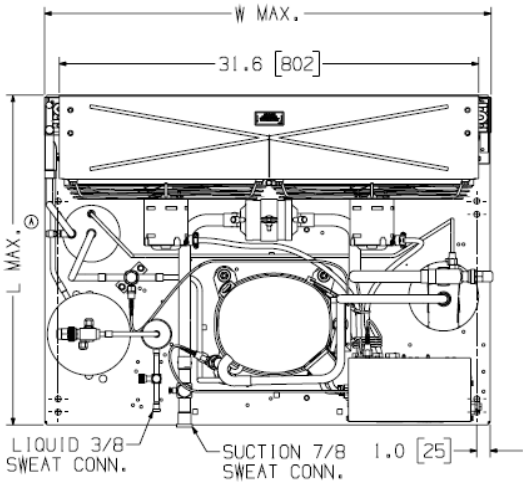
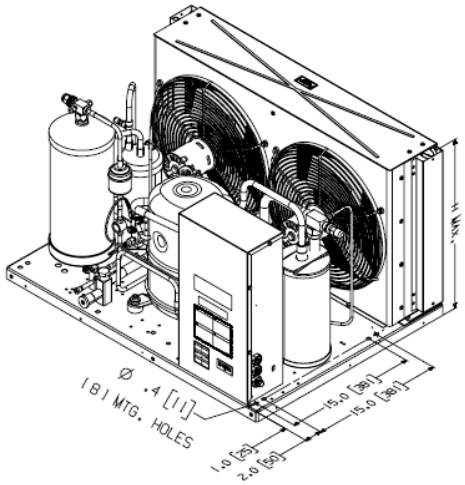
March 16, 2011

Tecumseh Compressor Company
Indoor Condensing Units

Model: AWA2457ZXDXF **BoM: 2B3263-1** **R-404A** **1.5 HP** **AIRCOOLED**





Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AWA2457ZXDXF	25.0	33.5	19.5	14.7	7/8" S	3/8" S	16.46 lbs	1600	38.5	200
* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting										

		Ambient Temperatures											
Evaporator T		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-40	11.9	1960	954	85	1501	894	94	---	---	---	---	---	---
-35	15.0	2549	1045	86	1985	986	95	---	---	---	---	---	---
-30	10.7	3263	1143	87	2607	1092	96	1949	1034	105	1284	971	114
-25	14.0	4039	1241	88	3294	1199	97	2560	1147	106	1814	1089	115
-20	17.1	4920	1343	89	4085	1311	98	3275	1268	107	2435	1214	116
-15	19.3	5880	1448	91	4953	1426	99	4031	1391	108	3137	1345	117
-10	24.5	6921	1553	93	5893	1543	101	4881	1518	110	3850	1478	118
-5	28.8	8056	1660	95	6929	1662	103	5794	1647	111	4697	1617	119
0	33.5	9320	1764	97	8095	1781	105	6810	1778	113	5588	1758	121
5	36.5	10531	1870	98	9189	1901	106	7892	1910	114	6552	1901	122
10	43.7	11970	1969	100	10460	2018	108	9022	2041	116	7609	2044	124

60 Hz Performance

Return gas temp. 40°F. 5°F sub-cooling

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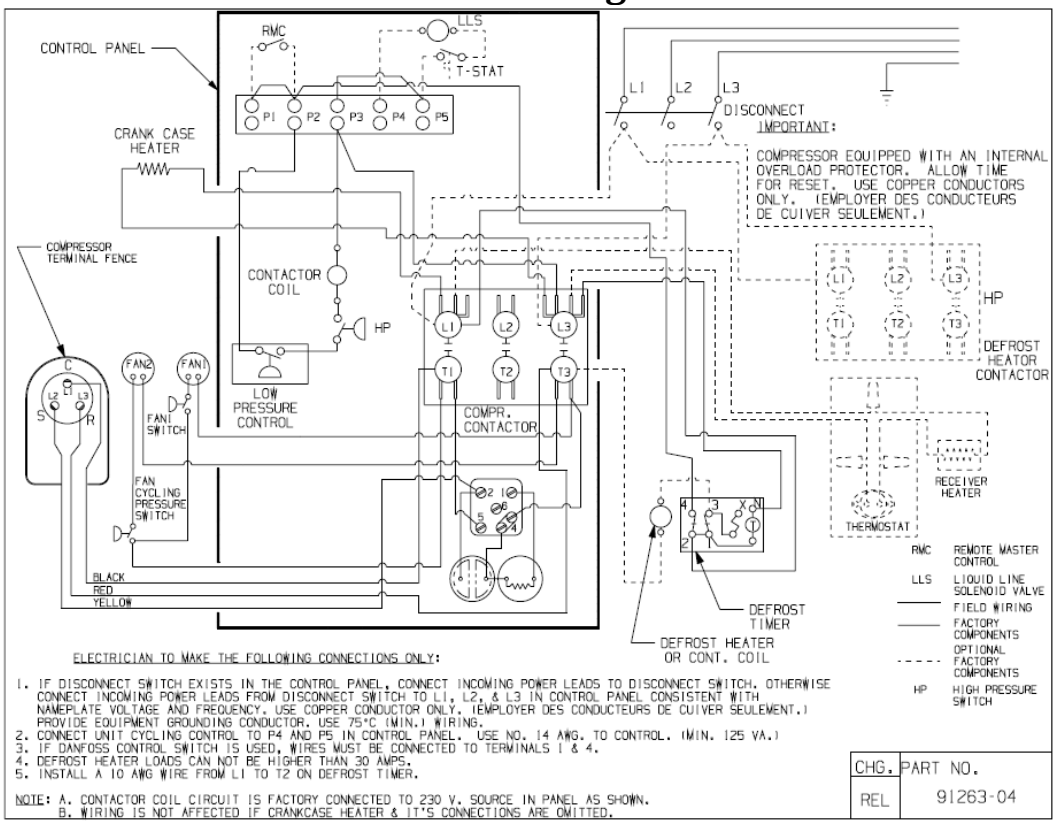
Specifications/ Parts:

Model	AWA2457ZXDXF
Unit Bill of Material	2B3263-1
Nominal Volts-Hz-Ph	208-230-60-1
Refrigeration Range	-40° to 10°F
Design Pressure Low	181
Design Pressure High	450
Voltage Range	187 to 254
Min. Circuit Ampacity	13.4
Max. Fuse Size (amps)	20
Compressor Model	AWA2450ZXD
Comp. Bill of Material	AW615ET-099-A2
Compressor RLA/LRA	9.4 / 56.0
Overload	INTERNAL
Relay	820ARR3H23
Run Capacitor	85PR370F23
Run Capacitor Rating	30MFD 370V(M)VDE
Start Capacitor	85PS330D16
Start Capacitor Rating	130-156 MFD 330V VDE
Contactor	91014
Unit Drawing	DGU1918-59
Wiring Diagram	91263-04

Fan Motor	810F050C20 (2)
Fan Motor RLA	0.7 Each
Fan Blade	51568-1 (2)
Fan Guard	70831 (2)
Fan Shroud	70648-2
High Pressure Switch	84095-2
Low Pressure Control	84026-2
Oil Separator *	704-00002
Condenser	50855-1
Fan Switch	84096-1
Fan Switch	84096-2
Receiver Tank	51082-1
Liquid Valve	31592
Liquid Filter *	70081
Sight Glass *	70084
Suction Valve *	31529-1
Rotolock Valve Gasket	30233
Discharge Valve	56596
Suction Filter *	70082
Accumulator *	TK00042000
Crankcase Heater	91022-1
Defrost Timer *	84110
Suction Shut Off Valve*	56500-K14
Liquid Shut Off Valve*	56500-K06
Shrader Valve Body*	56510
Valve Core*	56552
* = Equipped Units Only	

Electrical Diagram


CONTROL PANEL
RMC
LLS
T-STAT
P1 P2 P3 P4 P5
CRANK CASE HEATER
COMPRESSOR TERMINAL FENCE
CONTACTOR COIL
HP
LOW PRESSURE CONTROL
FAN1 SWITCH
FAN CYCLING PRESSURE SWITCH
BLACK
RED
YELLOW
L1 L2 L3
DISCONNECT
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
COMPR. CONTACTOR
DEFROST HEATOR CONTACTOR
RECEIVER HEATER
THERMOSTAT
DEFROST TIMER
DEFROST HEATER OR CONT. COIL
RMC REMOTE MASTER CONTROL
LLS LIQUID LINE SOLENOID VALVE
FIELD WIRING
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
HP HIGH PRESSURE SWITCH
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. IF DISCONNECT SWITCH EXISTS IN THE CONTROL PANEL, CONNECT INCOMING POWER LEADS TO DISCONNECT SWITCH. OTHERWISE CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P4 AND P5 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF DANFOSS CONTROL SWITCH IS USED, WIRES MUST BE CONNECTED TO TERMINALS 1 & 4.
4. DEFROST HEATER LOADS CAN NOT BE HIGHER THAN 30 AMPS.
5. INSTALL A 10 AWG WIRE FROM L1 TO T2 ON DEFROST TIMER.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
CHG. REL
PART NO.
91263-04